

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 03050792
PUBLICATION DATE : 05-03-91

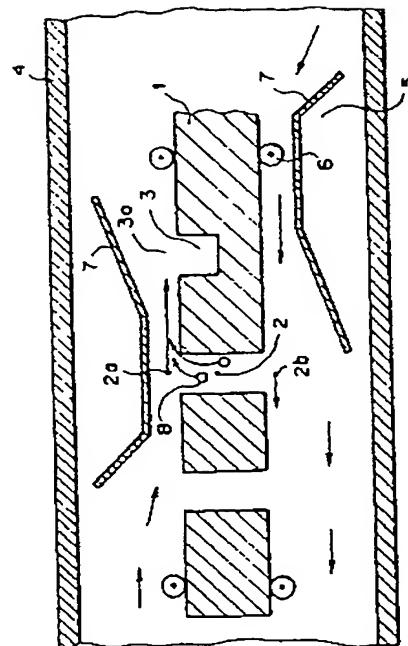
APPLICATION DATE : 19-07-89
APPLICATION NUMBER : 01184732

APPLICANT : CANON INC;

INVENTOR : INAGAWA HIDEHO;

INT.CL. : H05K 3/42 H05K 3/26 H05K 3/40

TITLE : VERY SMALL HOLE TREATMENT FOR
PRINTED BOARD AND DEVICE
THEREFOR



ABSTRACT : PURPOSE: To fluidize a treating liquid sufficiently into not only the through-hole but also the blind hole of a printed board by a simple means, and to make treatment effective by generating a high-speed liquid current on one side of the opening section of a very small hole and making the hydraulic pressure of the opening section lower than that in an opening section on the reverse side or the very small hole.

CONSTITUTION: A printed board 1 is held into a treating tank 4 filled with a treating liquid 5 by support members 6, and liquid-current regulating members 7 are arranged in the vicinity of both sides of the board 1. Very small through-holes 2 and a very small closed hole 3 are formed to the board 1. When liquid currents are generated on both sides along the board 1, high-speed liquid currents are generated along one opening sections 2a through the through-holes 2, and gentle currents are generated along reverse opening sections 2b. Accordingly, hydraulic pressure in the opening sections 2a is made smaller than that in the reverse opening sections 2b, pressure difference is generated among both opening sections 2a, 2b through the through-holes 2 and liquid currents are generated from the opening sections 2b to the direction of 2a in the through-holes 2, and the liquid and bubbles in the through-holes 2 are flowed out to the outsides of the through-holes 2 from the opening sections 2a brought to a decompressed state.

COPYRIGHT: (C)1991,JPO&Japio